



TMX W415

SAW Bandpass Filter – Europe DVB-C
Preliminary Specification (Rev-2)

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May 25th, 2005

Reference Temperature : +25°C

Electrical Parameters	Unit	Minimum	Typical	Maximum
Source Impedance (Single ended)	Ω	-	50	-
Load Impedance (balanced drive)	Ω / pF	-	2000 // 3	-
Center Frequency f_0 (center between 3dB points)	MHz	-	36.125	-
Relative Attenuation α_{rel}				
33.12 MHz	dB	1.3	2.5	3.7
33.59 MHz	dB	-1.1	0.1	1.3
38.65	dB	1.9	0.4	1.6
39.12 MHz	dB	1.9	3.1	4.3
25.00 ... 32.12 MHz	dB	38	44	-
40.12 ... 41.42 MHz	dB	36	41	-
41.42 ... 45.00 MHz	dB	38	46	-
Insertion attenuation I_L Reference level for the following data 36.125 MHz	dB	16.1	17.6	19.1
Pass bandwidth $\alpha_{rel} \leq 3\text{dB}$ $BW_{3\text{dB}}$ $\alpha_{rel} \leq 30\text{dB}$ $BW_{30\text{dB}}$	MHz MHz	5.8 7.4	5.9 7.6	6.2 7.8
Reflected Wave Signal Suppression 1.1 μs ...6.0 μs after the main pulse (test pulse 250ns, carrier frequency 36.125MHz)	dB	42	46	-
Feed through Signal Suppression 1.2 μs ...1.1 μs before the main pulse (test pulse 250ns, carrier frequency 36.125MHz)	dB	50	56	-
Group Delay ripple (p-p) 32.13.....39.13 MHz	ns	-	40	-
Impedance at 36.125 MHz Input Output	k Ω // pF k Ω // pF	- -	2.2 // 15.3 1.4 // 5.6	- -
Temperature coefficient of frequency TC_f	ppm/K	-	-72	-
Package type	SIP5D			

Maximum Ratings

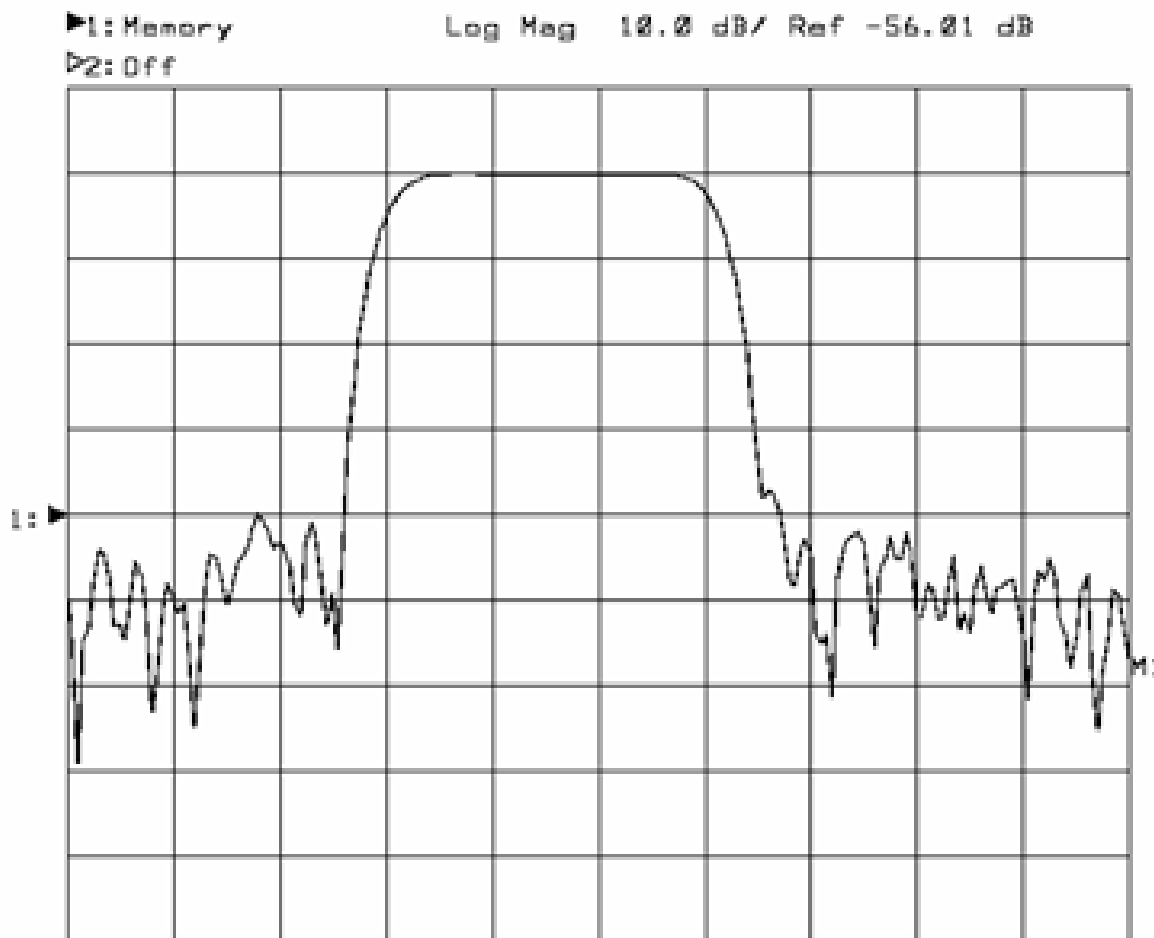
Rating	Unit	Value
Operable Temperature Range	T_A	-25 to +65 °C
Storage Temperature Range	T_{stg}	-40 to +85 °C
DC Voltage (Between any terminals)		12 V
AC Voltage (Between any terminals)	V_{PP}	10 Vp-p

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TYPICAL S21 RESPONSE

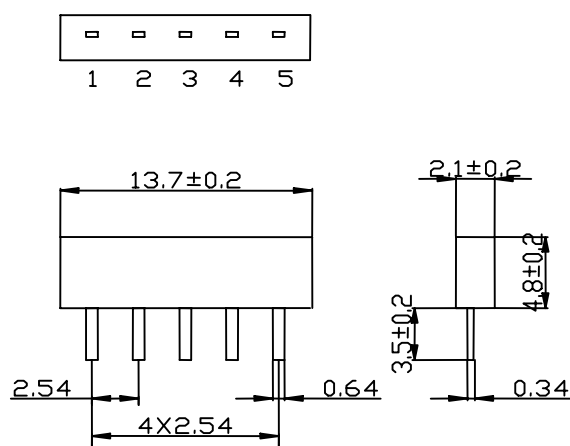


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PACKAGE DRAWING



Pin No.	Functions
1.	Input
2.	Input- Ground
3.	Ground
4.	Output
5.	Output